

***In the Specification:***

Please amend the specification as follows:

At page 1, after the title, please insert the following:

CROSS REFERENCE TO RELATED APPLICATIONS

The present application is a continuation of U.S. Application No. 09/719,108, 35 U.S.C. § 371 date May 25, 2001, U.S. National Phase filing date, December 8, 2002, allowed; which is the National Phase of International Application No. PCT/GB99/01857, international application date June 11, 1999, which was published in English on December 22, 1999 as WO 99/66029; and which applications claim priority to United Kingdom Application Nos. GB 9812821.8, filed June 12, 1998, and GB 9815404.0, filed July 15, 1998; all of which are fully incorporated by reference herein.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a novel enzyme involved in the control of plant growth, DNA sequences coding for the enzyme and uses of the nucleotide sequence coding for the enzyme in the production of transgenic plants with improved or altered growth characteristics.

Related Art

At page 3, before line 26, please insert:

BRIEF SUMMARY OF THE INVENTION

At page 4, before line 11, please insert:

DETAILED DESCRIPTION OF THE INVENTION

At page 18, before line 12, please insert:

BRIEF DESCRIPTION OF THE DRAWINGS

At page 18, line 16, through to the end of page 19, please amend the specification as follows:

FIGURE 1 shows the nucleotide sequence of the *P. coccineus* 2-oxidase cDNA clone pc-2boh.dna (*PcGA2oxI*) (SEQ ID NO: 1) with the coding region at residues 68-1063nt (332 amino acids).

FIGURE 2 shows the deduced amino acid sequence for the *P. coccineus* nucleotide sequence (*PcGA2oxI*) (SEQ ID NO: 2) shown in Figure 1.

FIGURE 3 shows the DNA probe sequences for *A. thaliana* probe T3 (SEQ ID NO: 3) (Figure 3a) and probe T24 (SEQ ID NO: 4)(Figure 3b).

FIGURE 4 shows the two major pathways of gibberellin (GA) biosynthesis.

FIGURE 5 shows the partial nucleotide sequence for *A. thaliana* clone at-2bt3 (*AtGA2oxI*)(SEQ ID NO: 5) with the coding region at residues 41-1027nt (329 amino acids).

FIGURE 6 shows the deduced amino acid sequence for *A. thaliana* clone at-2bt3 (*AtGA2oxI*)(SEQ ID NO: 6)

FIGURE 7 shows the partial nucleotide sequence for *A. thaliana* clone at-2bt24 (*AtGA2ox2*) (SEQ ID NO: 7), with the coding region at residues 109-1131nt (341 amino acids).

FIGURE 8 shows the deduced amino acid sequence for *A. thaliana* clone at2bt24 (*AtGA2ox2*) (SEQ ID NO: 8)[,].

FIGURE 9 shows the nucleotide sequence for *A. thaliana* genomic clone T31E10.11 (*AtGA2ox3*) (SEQ ID NO: 9)[,].

FIGURE 10 shows the deduced amino acid sequence for genomic clone T31E10.11 (*AtGA2ox3*)(SEQ ID NO: 10)[,].

FIGURE 11 shows a photograph of transformed *Arabidopsis* plants (Columbia ecotype) expressing *P. coccineus* GA 2-oxidase cDNA under control of CaMV 35S promoter, including a transformed plant showing no phenotype (extreme right).

### EXAMPLES

#### **Example 1. Isolation of cDNA clone encoding GA 2 $\beta$ -hydroxylase from *Phaseolus coccineus***

A cDNA clone encoding a GA 2 $\beta$ -hydroxylase was isolated from *Phaseolus coccineus* embryos by screening a cDNA library for expression of functional enzyme as follows. RNA was extracted from the cotyledons of mature *Phaseolus coccineus*

Please amend the specification at page 22, lines 18 to 25, as follows:

5'-TAATCACTATCCACCATGTC-3' (sense)(SEQ ID NO:11),

5'-TGGAGAGAGTCACCCACGTT-3' (antisense)(SEQ ID NO:12), and

T24E24TF sequences:.

5' -GGTTATGACTAACGGGAGGT-3' (sense)(SEQ ID NO:13),

5'-CTTGTAAGCAGAAGATTTGT-3' (antisense)(SEQ ID NO:14),

Please amend the specification at page 24, lines 22 and 24, as follows:

5'-TGAGCTCAACCATGGTTGTTCTGTCTCAGC-3' (sense)(SEQ ID NO:15), and

5'-TGAGCTCTTAATCAGCAGCAGATTTCTGG-3' (antisense)(SEQ ID NO:16),

Please amend the specification at page 31 and before claim 1:

~~CLAIMS~~ WHAT IS CLAIMED IS:

After the claims and abstract, and before the drawings, please insert the sequence  
listing attached hereto.